REMOTE SENSING OF ENVIRONMENT

An Interdisciplinary Journal

Volume 6, 1977

Contents

H.W. GAUSMAN (Weslaco, TX)
Reflectance of Leaf Components 1

COMPTON J. TUCKER (Greenbelt, MD)
Spectral Estimation of Grass Canopy Variables 11

WILLIAM W. SCHROEDER (Dauphin Island, AL)
Sea Truth and Environmental Characterization Studies
of Mobile Bay, Alabama
Utilizing ERTS-1, Data Collection Platforms 27

Short Communication

W.A. DAVIS (Edmonton, Canada) and F.G. PEET (Ottawa, Canada)
A Method of Smoothing Digital Thematic Maps 45

D.T. CURREY (Victoria, Australia)
Identifying Flood Water Movement 51

Editorial 63

JOANN PARIKH (College Park, MD)
A Comparative Study of Cloud Classification Techniques 67

B.V. VINOGRADOV (Leningrad, USSR)
Remote Sensing in Ecological Botany 83

V. KLEMAS and D.F. POLIS (Newark, DE)
A Study of Density Fronts
and their Effects on Coastal Pollutants 95

J.E. GAYNOR, F.F. HALL, JR., J.G. EDINGER and G.R. OCHS (Boulder, CO)
Measurement of Vorticity in the Surface Layer
Using an Acoustic Echo Sounder Array 127

Short Communications

R.S. MURTHY, S. PANDEY, L.R. HIREKERUR (New Delhi, India) and N.V.M. UNNI (Ahmedabad, India)
Feasibility Study in Using Multiband Photography
for Studies in Geomorphology, Soils and Land Use 139

J.E. CHANCE (Edinburg, TX)
Applications of Suits Spectral Model to Wheat 147

Book Review

N.G. Jerlov
Marine Optics (reviewed by A.J. LaRocca) 151

STEWART CAMPBELL and BRIAN MAY (Berkshire, U.K.)
Determination of the Optimum Field of View and Spacing between Observations for a Satellite –Borne Scanning Radiometer Observing the Stratosphere 157

DAVID J. LEU (Newark, DE)
Visible and Near-Infrared Reflectance of Beach Sands:
A Study on the Spectral Reflectance/Grain Size Relationship. 169

J.R. MILLER, S. C. JAIN, N. T. O'Neill,
W. R. MCNEIL (Toronto, Canada), and K. P. B. THOMSON (Ottawa, Canada)
Interpretation of Airborne Spectral
Reflectance Measurements Over Georgian Bay 183

DONALD E. BARRICK (Boulder, CO)
The Ocean Waveheight Nondirectional Spectrum
from Inversion of the HF Sea-Echo Doppler Spectrum 201

ROBERT S. FRASER (Greenbelt, MD.),
OM P. BAHETHI (Silver Springs, MD) and A. H. AL-ABBAS (Baghdad, Iraq)
The Effect of the Atmosphere on the Classification of Satellite Observations to Identify Surface Features 229

ROBERT M. LERNER and JAMES P. HOLLINGER (Washington, D.C.)
Analysis of 1.4 GH_z Radiometric Measurements from Skylab 251

WILLIAM R. JOHNSON and DEAN R. NORRIS (Houston, TX)
A Multispectral Analysis of the Interface
between the Brazil and Falkland Currents from Skylab 271

R.G.S. RAO and F.T. ULABY (Lawrence, KS)
Optimal Spatial Sampling Techniques for Ground
Truth Data in Microwave Remote Sensing of Soil Moisture 289

JOHN L. ENGVALL, JACK D. TUBBS and QUENTIN A. HOLMES (Houston, TX)
Pattern Recognition of Landsat Data
Based upon Temporal Trend Analysis 303

J.L. HEILMAN, E.T. KANEMASU, J.O. BAGLEY, and V.P. RASMUSSEN
(Manhattan, KS)
Evaluating Soil Mositure and Yield of Winter Wheat
in the Great Plains Using LANDSAT Data 315

Short Communication

STAN SCHNEIDER and MICHAEL MATSON (Washington, D.C.)
Satellite Observations of Snowcover
in the Sierra Nevadas During the Great California Drought 327

Author and Subject Indexes to Volume 6 335